

## 2009 -2012 HONDA CRF 450R

### ACT Wide Ratio Gear Set

Thank you for purchasing this quality ACT product. ACT has a long racing heritage supporting countless racers and series champions in many forms of racing. Now you can let ACT's experience and expertise give you the same winning results. The ongoing challenge to win puts a constant demand for improved and higher performance ACT products. Constant challenges and continual improvement are driving forces at ACT. If for any reason ACT does not meet your challenge or expectations, let us know so ACT products can continue to improve.

#### **Before you begin:**

The ACT Wide Ratio Gear Set installs in the same manner as the factory parts.

Read all instructions. Review the factory service manual in all chapters covering complete disassembly and assembly of the engine.

Make sure you have all the proper tools for complete disassembly and assembly of the engine.

#### **About Your ACT Wide Ratio Gear Set:**


- When comparing the factory Honda transmission gears to your new ACT Wide Ratio Gear Set, be aware that the ACT gears are positioned slightly different.
- Your new ACT Fifth gear on the main shaft may interfere slightly with the transmission case. No interference issues were encountered on test transmissions, but engine cases are expected to vary. To find out if and where clearance may be needed, assemble second gear on the main shaft and slide it temporarily in the right case half and rotate the shaft. Use this opportunity to mark where the interference may occur in the case. To determine possible interference, you may need to wiggle the shaft around or assemble both case halves together so the shaft is properly aligned. Clearance the case as needed.

<b>Gear Ratio Comparison</b>					
	1st	2nd	3rd	4th	5th
Factory	1.80	1.471	1.235	1.050	.909
<b>ACT</b>	1.80 (existing)	1.375	1.11	.909	.750

#### **Additional Notes or Warnings:**

Some CRF450R owners and mechanics report that increasing oil volume in the transmission reduces the chance of transmission problems when riding for long distances.

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 **WARNING** Installation should be performed by an experienced or professional motorcycle mechanic using proper tools and installation procedures as indicated in the Honda factory service manual.

